Claims

- 1. A spark plug comprising:
- a center electrode; and

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a side electrode located on at least one side of said center electrode so that a spark discharge gap is formed between said center electrode and said side electrode, wherein:

at least one of said center electrode and said side electrode includes a precious metal member facing said spark discharge gap; and

- said precious metal member contains Ir as a main component, 0.3 mass% to 43 mass% of Rh, 5.2 mass% to 41 mass% of Ru, and 0.4 mass% to 19 mass% of Ni.
- 2. The spark plug as claimed in claim 1, wherein said

 15 precious metal member contains Ir as a main component, 0.5 mass%

 to 36 mass% of Rh, 5.2 mass% to 36 mass% of Ru, and 0.4 mass%

 to 11 mass% of Ni.
- 3. The spark plug as claimed in claim 1, wherein said precious metal member contains Ir as a main component, 1.0 mass% to 31 mass% of Rh, 5.2 mass% to 31 mass% of Ru, and 0.4 mass% to 7 mass% of Ni.
- 4. The spark plug as claimed in claim 1, wherein said precious metal member contains Ir as a main component, 6.5 mass%

to 22 mass% of Rh, 5.2 mass% to 24 mass% of Ru, and 0.4 mass% to 3.5 mass% of Ni.

- 5. The spark plug as claimed in any one of claims 1 to 4, wherein said precious metal member contains 8 mass% to 20 mass% of Ru.
- 6. The spark plug as claimed in any one of claims 1 to 5, wherein said precious metal member contains at least one 10 of Pt, Pd, Re and Os.
- 7. The spark plug as claimed in any one of claims 1 to 6, wherein said precious metal member contains an oxide (inclusive of a composite oxide) of an element selected from Sr, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Ti, Zr and Hf.
- 8. The spark plug as claimed in claim 7, wherein said precious metal member contains at least one of Y_2O_3 , La_2O_3 , ThO_2 and ZrO_2 .
 - 9. A spark plug comprising:
 - a center electrode; and
- a side electrode located on at least one side of said

 25 center electrode so that a spark discharge gap is formed between

said center electrode and said side electrode, wherein:

at least one of said center electrode and said side electrode includes a precious metal member facing said spark discharge gap; and

said precious metal member contains Ir as a main component, and Rh, Ni and Ru in a range of from 8 mass% to 20 mass%.

- 10. The spark plug as claimed in claim 9, wherein a
 10 content of Ni contained in said precious metal member is not
 smaller than 0.4 mass% and smaller than a content of Ru contained
 in said precious metal member.
- 11. The spark plug as claimed in claim 9 or 10, wherein
 15 a content of Rh contained in said precious metal member is not
 smaller than 0.3 mass% and not larger than a content of Ru
 contained in said precious metal member.